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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 027053-0107

Applicant: Angela BELCHER et al.

Title: PEPTIDE MEDIATED SYNTHESIS OF METALLIC AND
MAGNETIC MATERIALS

Appl. No.: 10/665,721

Filing Date: 09/22/2003

Examiner: Teresa D. Wessendorf

Art Unit: 1639

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), before the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

FEE

A credit card payment form in the amount of \$180.00 is enclosed in accordance with 37 CFR §1.17(p) to cover the fee associated with an information disclosure statement under 37 CFR §1.97(d) in the amount of \$180.00.


Although Applicants believe that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

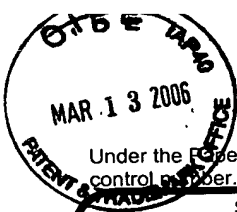
Respectfully submitted,

3/1/06

Date

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Attorney for Applicant
Registration No. 35,264



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Substitute for form 1449B/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/665,721
Filing Date	09/22/2003
First Named Inventor	Angela M. BELCHER et al.
Group Art Unit	1639
Examiner Name	Teresa D. Wessendorf
Attorney Docket Number	027053-0107

Sheet 1 of 8

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	C1	4,593,002		DULBECCO	06-1986	
	C2	5,223,409		LADNER et al.	06-1993	
	C3	5,264,563		HUSE	11-1993	
	C4	5,270,170		SCHATZ et al.	12-1993	
	C5	5,316,922		BROWN et al.	05-1994	
	C6	5,403,484		LADNER et al.	04-1995	
	C7	5,510,240		LAM et al.	04-1996	
	C8	5,571,698		LADNER et al.	11-1996	
	C9	5,585,646		KOSSOVSKY et al.	12-1996	
	C10	5,683,867		BIESECKER et al.	11-1997	
	C11	5,714,330		BRENNER et al.	02-1998	
	C12	5,723,323		KAUFFMAN et al.	03-1998	
	C13	5,739,305		CUBICCIOTTI	04-1998	
	C14	5,750,373		GARRARD et al.	05-1998	
	C15	5,751,018		ALIVISATOS et al.	05-1998	
	C16	5,763,192		KAUFFMAN et al.	06-1998	
	C17	5,814,476		KAUFFMAN et al.	09-1998	
	C18	5,817,483		KAUFFMAN et al.	10-1998	
	C19	5,821,047		GARRARD et al.	10-1998	
	C20	5,824,514		KAUFFMAN et al.	10-1998	
	C21	5,837,500		LADNER et al.	11-1998	
	C22	5,859,210		STOWOLITZ et al.	01-1999	
	C23	5,866,363		PIECZENIK	02-1999	
	C24	5,985,353		LAWTON et al.	11-1999	
	C25	5,990,479		WEISS et al.	11-1999	
	C26	6,040,136		GARRARD et al.	03-2000	
	C27	6,100,035		KAUFFMAN et al.	08-2000	
	C28	6,207,392		WEISS et al.	03-2001	
	C29	6,235,540		SIIMAN et al.	05-2001	
	C30	2001/0008759		MARKS et al.	07-2001	
	C31	6,329,209		WAGNER et al.	12-2001	
	C32	6,413,723		KAUFFMAN et al.	07-2002	
	C33	6,417,340		MIRKIN et al.	07-2002	
	C34	6,423,538		WITTRUP et al.	07-2002	
	C35	2002/0107179		POTTS et al.	08-2002	
	C36	6,472,147		JANDA et al.	10-2002	
	C37	6,492,107		KAUFFMAN et al.	12-2002	
	C38	6,569,641		KAUFFMAN et al.	05-2003	

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/665,721
				Filing Date	09/22/2003
				First Named Inventor	Angela M. BELCHER et al.
				Group Art Unit	1639
				Examiner Name	Teresa D. Wessendorf
Sheet	2	of	8	Attorney Docket Number	027053-0107

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY
		Office ³	Number ⁴	Kind Code ⁵ (if known)		
	C39	EP	0 552 267		PEPTIDE THERAPEUTICS LIMITED	07/28/1993
	C40		02/48701		LIEBER	06/20/2002
	C41		91/14696		Gilead Sciences, Inc.	10/03/1991
	C42		99/13313		HUDSON	03/18/1999

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C43	ALIVISATOS, A. P. et al., Organization of 'nanocrystal molecules' using DNA, Nature, 1996, 382: pp. 609-611.	
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	C53	COSTERTON, J. W. et al., Bacterial Biofilms: A common cause of persistent infections, Science, 1999, 284: pp. 1318-1322.		
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	C65	FRADEN, "Phase Transitions in Colloidal Suspensions of Virus Particles"; Baus, M. et al. (ed.), Observation, prediction and simulation of phase transitions in complex fluids, Kluwer Academic Pub., Boston: 1995, pp.113-164.		
	C66	FULTON, T. A. et al., Observation of single-electron charging effects in small tunnel junctions, Phys. Rev. Lett., 1987, 59: pp. 109-112.		

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	C67	GLOGAROVA, M., The influence of an external electric field on the structure of chiral sm C* liquid crystal, Mol. Cryst. Liq. Cryst, 1983, 91: pp. 309-325.		
	C68	GOODBY, J. W. et al., A new molecular ordering in helical liquid crystals, J. Am. Chem. Soc., 1989, 111: pp. 8119-8125.		
	C69	GRAY, G.W., et al., "The smectic B phase," Smectic Liquid Crystals – Textures and Structures, pgs. 23-44 (Leonard Hill, London, UK 1984).		
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	C76	HUANG, L. et al., Generation of synthetic elastin-mimetic small diameter fibers and fiber networks, Macromolecules, 2000, 33: pp. 2989-2997.		
	C77	ISSAENKO, S.A. et al., Quantum theory of chiral interactions in cholesteric liquid crystals, Phys. Rev. E, 1999, 60: pp. 578-597.		
	C78	ITO, T. et al., Pushing the limits of lithography, Nature, 2000, 406: pp. 1027-1031.		
	C79	JACKMAN, R., Three-dimensional metallic microstructures fabricated by soft lithography and microelectrodeposition, Langmuir, 1999, 15: pp. 826-836.		
	C80	JIN, H.-J., Electrospinning <i>Bombyx mori</i> silk with poly(ethylene oxide), Biomacromolecules, 2002, 3: pp. 1233-1239.		

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	C81	KINGON, A. I. et al., Alternative dielectrics to silicon dioxide for memory and logic devices, Nature, 2000, 406: pp. 1032-1038.	
	C82	LABRENZ, M. et al, Formation of sphalerite (ZnS) deposits in natural biofilms of sulfate-reducing bacteria, Science, 2000, 290: pp. 1744-1747.	
	C83	LAPOINTE, J. et al., Filamentous bacterial viruses VIII. liquid crystals of fd., Mol. Cryst. and Liq. Cryst., 1973, 19: pp. 269-278.	
	C84	LEE, S.-W. et al., Virus-based alignment of inorganic, organic, and biological nanosized materials, Adv. Mat., 2003, 15: pp. 689-692.	
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	C87	LI, D. et al., Electrospinning of polymeric and ceramic nanofibers as uniaxially aligned arrays, Nano Letters, 2003, 3: pp. 1167-1171.	
	C88	LI, D. et al., Fabrication of titania nanofibers by electrospinning, Nano Letters, 2003, 3: pp. 555-560.	
	C89	LI, L.-S., et al., Semiconductor nanorod liquid crystals and their assembly on a substrate, Advanced Materials, 2003, 15: pp. 408-411.	
	C90	LI, L.-S., et al., Semiconductor nanorod liquid crystals, Nano Letters, 2002, 2: pp. 557-560.	
	C91	MAEDA, H., Atomic Force Microscopy Studies for Investigating the Smectic Structures of Colloidal Crystals of β -FeOOH, Langmuir, 1996, 12: pp. 1446-1452.	
	C92	MAEDA, Y. et al., Schiller layers in β -ferric oxyhydroxide sol as an order-disorder phase separation system, Colloids and Surfaces, 1983, 6: pp. 1-16.	
	C93	MANN, S. et al., Crystalization at inorganic-organic interfaces: biominerals and biomimetic synthesis, Science, 1993, 261: pp. 1286-1292.	
	C94	MANN, S. et al., Biologically programmed nanoparticle assembly, Adv. Mater., 2000, 12: pp. 147-150.	

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	C95	MATHIAS, J. P., Self-assembly through hydrogen-bonding: peripheral crowding – a new strategy for the preparation of stable supramolecular aggregates based on parallel, connected CA ₃ -M ₃ rosettes, J. Am. Chem. Soc., 1994, 116: pp. 4326-4340.		
	C96	MATTHEWS, J. A. et al., Electrospinning of collagen nanofibers, Biomacromolecules 2002, 3: pp. 232-238.		
	C97	MATTOUSSI et al., Self-Assembly of CdSe-ZnS Quantum Dot Bioconjugates Using an Engineered Recombinant Protein, J. Am. Chem. Soc., 2000, 122: pp. 12142-12150.		
	C98	MEGELSKI, S. et al., Micro- and nanostructured surface morphology on electrospun polymer fibers, Macromolecules, 2002, 35: pp. 8456-8466.		
	C99	MEIRAV, U. et al., Single-electron charging and periodic conductance resonances in GaAs nanostructures, Phys. Rev. Lett., 1990, 65: pp. 771-774.		
	C100	MELOSH, N. A. et al., Ultrahigh-density nanowire lattices and circuits, Science, 2003, 300: pp. 112-115.		
	C101	MIRKIN C. A. et al., A DNA-based method for rationally assembling nanoparticles into macroscopic materials, Nature, 1996, 382: pp. 607-609.		
	C102	MUTHUKUMAR, M. et al., Competing interactions and levels of ordering in self-organizing polymeric materials, Science, 1997, 277: pp. 1225-1232.		
	C103	NIIKURA, K., "Ordering of Inorganic Nanocrystals Using Viruses Kagaku to Kogyo (Tokyo, Japan) vol., 55, no. 2, p. 1363 (2002).		
	C104	NORRIS, D. J. et al., Size dependence of exciton fine structure in CdSe quantum dots, Phys. Rev. B, 1996, 53: pp. 16347-16354.		
	C105	NYGAARD, S. et al., Surface-specific zeolite-binding proteins, Adv. Mat., 2002, 14: pp. 1853-1856.		
	C106	ONSAGER, L., The effects of shape on the interaction of colloidal particles, Annals N.Y. Acad. Sci., 1949, 51: p. 627-659.		
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		Filing Date	09/22/2003
		First Named Inventor	Angela M. BELCHER et al.
		Group Art Unit	1639
		Examiner Name	Teresa D. Wessendorf
(use as many sheets as necessary)		Attorney Docket Number	027053-0107
Sheet	7	of	8

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	C109	PEERCY, P. S., The drive to miniaturization, Nature, 2000, 406: pp. 1023-1026.	
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